

REMARKS

In his Office Action the Examiner has rejected Claims 1, 3 and 5 under 35 U.S.C. 102(e) as being anticipated by Ishii (U.S. Patent Number 5,789,991) and the rest of the claims under 35 U.S.C. 103(a) as being unpatentable over Ishii in view of Soh (Patent Application Publication US 2002/0196865 and several other patents. The Examiner has stated in his rejection that Ishii discloses a having a transmitter and receiver, wherein the transmitter comprising: a carrier frequency generator for generating carrier wavelets each defined by 360 degrees and each cycle having a zero crossing with zero energy at each zero crossing; and modulating the carrier frequency according to the information signal to be transmitted, and each of the carrier modulated with the 0's and 1's having a corresponding high and low frequency carrier, claimed altered and not altered respectively. The Examiner points to Figure 5 and col.1, lines 10-37 of Ishii as disclosing this system.

As discussed in detail above Applicant respectfully disagrees with the Examiner's finding that Ishii in view of Soh and the other cited patents anticipates or makes obvious Applicant's invention to someone skilled in the art. The Examiner has discussed only some elements of some embodiments of the rejected claims and has completely ignored the true novelty of the invention. The novelty is based in the fact that the invention is an RF signal and method of constructing such signal by changing the frequency of a non-zero positive integer number of complete discrete wavelets that start at zero crossing and end at zero crossing resulting in the ability to greatly increase the transmission of data and greatly decrease the bandwidth required. Applicant has amended the claims to better point out this novelty and to correct several minor errors.

Amended Claims 1-17 now appear in the application. Reconsideration of the application and the patentable merits of the subject matter covered by these claims is respectfully requested. Applicant submits that Claims 1-17 are allowable and respectfully requests early favorable action by the Examiner.

Title: "Integer Cycle Frequency Hopping Modulation..."

Serial No. 10/765,442

Attorney Docket No. P031696-08UT

Responsive to Office Action Mailed February 1, 2005

Date: May 25, 2005

If the Examiner believes a telephonic interview with Applicant's representative would aid in the prosecution of this application, he is cordially invited to contact Applicant's representative at the below listed number.

May 25, 2005

Date

Respectfully submitted,



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